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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/549,334	09/11/2006	Su-Gyeong Lee	8071-103 (OPP052118US)	6690
22150 7590 06/26/2009 F. CHAU & ASSOCIATES, LLC			EXAMINER	
130 WOODBU	RY ROAD		HEINRICH, SAMUEL M	
WOODBURY,	NY 11/9/		ART UNIT	PAPER NUMBER
			3742	
			MAIL DATE	DELIVERY MODE
			06/26/2009	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

	Application No.	Applicant(s)				
Office Action Commons	10/549,334	LEE ET AL.				
Office Action Summary	Examiner	Art Unit				
	Samuel M. Heinrich	3742				
The MAILING DATE of this communication appe Period for Reply	ears on the cover sheet with the c	orrespondence ad	dress			
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).						
Status						
1) Responsive to communication(s) filed on						
	- action is non-final.					
<i>;</i> —						
closed in accordance with the practice under Ex						
·	.,					
Disposition of Claims						
4)⊠ Claim(s) <u>1-4,6-14 and 16-20</u> is/are pending in tl	he application.					
4a) Of the above claim(s) is/are withdrawn from consideration.						
5) Claim(s) is/are allowed.						
6)⊠ Claim(s) <u>1-4,6-14 and 16-20</u> is/are rejected.						
7) Claim(s) is/are objected to.						
8) Claim(s) are subject to restriction and/or election requirement.						
Application Papers						
9)☐ The specification is objected to by the Examiner.						
10)⊠ The drawing(s) filed on <u>13 September 2005</u> is/are: a)⊠ accepted or b)□ objected to by the Examiner.						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).						
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.						
Priority under 35 U.S.C. § 119						
12)⊠ Acknowledgment is made of a claim for foreign	priority under 35 U.S.C. § 119(a)	-(d) or (f).				
a)⊠ All b)□ Some * c)□ None of:		(4) -: (.).				
1.☐ Certified copies of the priority documents	have been received.					
2.☐ Certified copies of the priority documents		on No				
3. Copies of the certified copies of the priori	• •	<u> </u>	Stage			
application from the International Bureau			2 9 -			
	* See the attached detailed Office action for a list of the certified copies not received.					
	·					
Attachment(s)	Λ Π Instant - 6	(DTO 440)				
1) X Notice of References Cited (PTO-892) 4) Interview Summary (PTO-413) Paper No(s)/Mail Date						
3) Information Disclosure Statement(s) (PTO/SB/08)						
Paper No(s)/Mail Date 6) Uther:						

DETAILED ACTION

Claim Rejections - 35 USC § 112

The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

Claims 1-4, 6-14, and 16-20 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

Claims 1, 6, and 16, "wherein the beam has substantially the same intensity as the intensity of each of the laser beams" is not a clear description. Which beam is being described? Is the beam a different beam than the earlier described beam(s)?

The dependent claims contain the unclear language of the base claims.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to

consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).

Claims 1-3 and 6-8 are rejected under 35 U.S.C. 103(a) as being unpatentable over USPN 4,820,899 to Hikima et al in view of US20040097103A1 to Imai et al in view of USPN 6,791,596 to Nihei et al.

Hikima et al show (Figure 6) plural lasers directed to plural stages in a semiconductor manufacturing system.

Imai et al show (Figure 9) plural laser beams input to a synthesizing optical system in an annealing device.

Nihei et al show (Figure 32) plural beams input to a synthesizer prism and plural beam output from the synthesizer prism.

The instant claimed system would have been obvious at the time applicant's invention was made to a person having ordinary skill in the art in order to rapidly process plural workpieces with uniform energy.

Claims 4, 9-14, and 16-20 are rejected under 35 U.S.C. 103(a) as being unpatentable over USPN 4,820,899 to Hikima et al in view of US20040097103A1 to Imai et al in view of USPN 6,791,596 to Nihei et al as applied to claims 1 and 6 above, and further in view of USPN 6,861,614 to Tanabe et al.

Tanabe et al show (Figure 52) a chamber with an optical unit and a stage therein and the use of a plurality of chambers having an optical unit and a stage therein with beam synthesizing and beam splitting system would have been obvious at the time

applicant's invention was made to a person having ordinary skill in the art because each chamber allows for some independent control and provides optimized work output.

Response to Arguments

Applicant's arguments with respect to claims have been considered but are moot in view of the new ground(s) of rejection.

Conclusion

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. The cited art pertains to plural laser beams and to synthesized beams.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Samuel M. Heinrich whose telephone number is 571-272-1175. The examiner can normally be reached on M-F.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Tu B. Hoang can be reached on 571-272-4780. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Application/Control Number: 10/549,334 Page 5

Art Unit: 3742

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Samuel M Heinrich/ Primary Examiner, Art Unit 3742